QC ABSTRACT

NAME OF WORK: Improvements to Roads and Drains of Buddha Jyothi Layout and surrounding areas in Ward No.11, Byatarayanapura.

SL NO	Item Of Work	Name of Test	Frequency of Test/Quantity	Executed Quantity	Number of Tests Required	Number of Tests Conducted
		Materials				
1	Cement	Fineness by dry sieving	One Test		1	1
		Finess by Air permeablity method	One Test		1	1
		Density	One Test		1	1
		Standard Consistency	One Test		1	1
		Initial Setting time	One Test		1	1
		Final Setting time	One Test		1	1
		Soundness (Le Chatelier's Method)	One Test		1	1
		Compressive Strength	One Test		1	1
2	Coarse aggregate(40 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
3	Coarse aggregate(20 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
		Aggregate crushing Value	One Test		1	1
		Aggregate Impact Value	One Test		1	1
4	Fine aggregate	SIEVE ANALYSIS	One Test		1	1
		Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
5	Steel	Bend test	One Test		1	1
		Tensile Test	One Test		1	1
		Yield Test	One Test		1	1
		ReBend test	One Test		1	1
6	Precast (100mm)	Core Compressive Strength	One Test		1	1
		Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1
7	Precast (200mm)	Core Compressive Strength	One Test		1	1
		Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1
8	PCC(M15)	Compressive Strength(7days and 28days)	1 set /1-5 cum	3.6	2	2
9	RCC(M20)	Compressive Strength(7days and 28days)	6 sets /100-150 cum	114.54	12	12

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	CP-2023-10-16-05 **Date: 29-06-23**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains of Buddha Jyothi Layout and surrounding areas in Ward No.11, Byatarayanapura.
Agency	:	Sri. A Kumar Reddy, #44 Kaveri Nagar, A Block, Bangalore-32.
Customer's Reference	:	BBMP/EE/BTP/WO/141/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	26-06-23
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 269:2015 Ordinary Portland cement Specification , IS 4031 (Part 4,5):1988 IS 4031 Part 1 (RA 2021) DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, (RA 2018) Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, (RA 2019) Determination of Soundness, Clause 5, Clause 6 IS 4031 Part 4, (RA 2019) Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, (RA 2019) Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11, (RA 2019)DETERMINATION OF DENSITY , Clause 6
Date of test	:	27-06-23
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 269:2015
1	Fineness by dry sieving (%)	2.15	_
2	Finess by Air permeablity method (m^2/kg,Min)	282.2	225m^2/kg, Min
3	Density (gm/cc)	3.15	_
4	Standard Consistency (%)	29.0%	Not specified
5	Initial Setting time	185 minutes	Not less than 30 minutes
6	Final Setting time	280 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

* The results obtained are satisfactory as per standard requirements.

Note:

The results pertain to the samples received and tested.

All information furnished by Agency/Representative

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Quality Manager

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Kodigehalli Sub Division
BBMP, Bangalore

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	CP-2023-10-16-05 **Date: 25-07-23**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains of Buddha Jyothi Layout and surrounding areas in Ward No.11, Byatarayanapura.
Agency	:	Sri. A Kumar Reddy, #44 Kaveri Nagar, A Block, Bangalore-32.
Customer's Reference	:	BBMP/EE/BTP/WO/141/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	26-06-23
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 269:2015 Ordinary Portland cement Specification , IS 4031 (Part 4,5):1988 IS 4031 Part 4, (RA 2019) Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, (RA 2019) Determination of Compressive Strength, Clause 6
Date of test	:	27-06-23
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 269:2015
1	3 Days	28.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.0N/mm^2	Not less than 37 N/mm^2
3	28 Days	58.5N/mm^2	Not less than 53 N/mm^2

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Kodigehalli Sub Division
BBMP, Bangalore

Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID	:	CP-2023-10-16-05 **Date: 29-06-23**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains of Buddha Jyothi Layout and surrounding areas in Ward No.11, Byatarayanapura.
Agency	:	Sri. A Kumar Reddy, #44 Kaveri Nagar, A Block, Bangalore-32.
Customer's Reference	:	BBMP/EE/BTP/WO/141/2022-23
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	26-06-23
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2021 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	26-06-23

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	374	374	2.5	97.5	90-100
3	20 mm	6738	7112	47.4	52.6	30-70
4	10 mm	5274	12386	82.6	17.4	10-35
5	4.75 mm	2081	14467	96.4	3.6	0-5
6	Pan	533	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2023-10-16-05** **Date: 29-06-23**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	12.7	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.5	
3	Specific Gravity	2.65	_
4	Bulk Density(Loose) (Kg/l)	1.49	_
5	Bulk Density(Compacted) (Kg/l)	1.51	_
6	Water Absorption(%)	0.25	_

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	CP-2023-10-16-05 **Date: 28-06-23**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains of Buddha Jyothi Layout and surrounding areas in Ward No.11, Byatarayanapura.
Agency	:	Sri. A Kumar Reddy, #44 Kaveri Nagar, A Block, Bangalore-32.
Customer Reference	:	BBMP/EE/BTP/WO/141/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	26-06-23
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2021 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	26-06-23

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : **5000** **grams**

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	159	159	3.2	96.8	90-100
3	10 mm	2541	2700	54.0	46.0	25-55
4	4.75 mm	2117	4817	96.3	3.7	0-10
5	Pan	183	5000	100	0	_

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TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2023-10-16-05 Date: 28-06-23

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	11.6	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	14.8	
3	Specific Gravity	2.62	_
4	Bulk Density(Loose) (Kg/l)	1.50	_
5	Bulk Density(Compacted) (Kg/l)	1.55	_
6	Water Absorption(%)	0.28	_
7	Aggregate crushing Value(%)	26.6	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	24.3	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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TEST REPORT OF FINE AGGREGATE

Lab ID	:	CP-2023-10-16-05 **Date: 28-06-23**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains of Buddha Jyothi Layout and surrounding areas in Ward No.11, Byatarayanapura.
Agency	:	Sri. A Kumar Reddy, #44 Kaveri Nagar, A Block, Bangalore-32.
Customer's Reference	:	BBMP/EE/BTP/WO/141/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	26-06-23
Sample Type	:	Fine Aggregate
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1, 3) RA2021 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	26-06-23
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	35	35	3.5	96.5	90-100	90-100	90-100	95-100
3	2.36 mm	172	207	20.7	79.3	60-95	75-100	85-100	95-100
4	1.18 mm	116	323	32.3	67.7	30-70	55-90	75-100	90-100
5	600 micron	201	524	52.4	47.6	15-34	35-59	60-79	80-100
6	300 micron	217	741	74.1	25.9	5-20	8-30	12-40	15-50
7	150 micron	183	924	92.4	7.6	0-10	0-10	0-10	0-15
8	Pan	76	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2023-10-16-05** **Date: 28-06-23**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.94	_
2	Specific Gravity	2.55	_
3	Material finer than 75 micron(%)	7.6	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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Quality Manager

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Kodigehalli Sub Division
BBMP, Bangalore

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TEST RESULTS OF STEEL

Lab ID	:	CP-2023-10-16-05 **Date: 27-06-23**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains of Buddha Jyothi Layout and surrounding areas in Ward No.11, Byatarayanapura.
Agency	:	Sri. A Kumar Reddy, #44 Kaveri Nagar, A Block, Bangalore-32.
Customer's Reference	:	BBMP/EE/BTP/WO/141/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	26-06-23
Sample Type	:	Sunvik
Reference to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2019.
Date of test	:	26-06-23

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe500	8	0.391	512	652	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	0.616	528	672	20.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	12	0.888	544	668	20.0%	Satisfactory	Satisfactory

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TEST REPORT OF PRECAST COVER SLAB

Lab ID	:	CP-2023-10-16-05	Date: 19-07-23
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.	
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.	
Project Name	:	Improvements to Roads and Drains of Buddha Jyothi Layout and surrounding areas in Ward No.11, Byatarayanapura.	
Agency	:	Sri. A Kumar Reddy, #44 Kaveri Nagar, A Block, Bangalore-32.	
Customer's Reference	:	BBMP/EE/BTP/WO/141/2022-23	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	15-07-23	
Sample Type /Size	:	Precast Cover Slab (100mm Thick)	
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete	
Date of test	:	15/07/2023	
Grade of Slab	:	M15	

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	77.52	100.48	1.116	4719	80.9	17.1	15.9	19.9
2	Cover Slab-2	77.46	100.52	1.122	4712	82.3	17.5	16.2	20.3
3	Cover Slab-3	77.30	100.51	1.118	4692	81.5	17.4	16.2	20.2

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TEST REPORT OF PRECAST COVER SLAB

Lab ID	:	CP-2023-10-16-05	Date: 19-07-23
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.	
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.	
Project Name	:	Improvements to Roads and Drains of Buddha Jyothi Layout and surrounding areas in Ward No.11, Byatarayanapura.	
Agency	:	Sri. A Kumar Reddy, #44 Kaveri Nagar, A Block, Bangalore-32.	
Customer's Reference	:	BBMP/EE/BTP/WO/141/2022-23	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	15-07-23	
Sample Type /Size	:	Precast Cover Slab (250mm Thick)	
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete	
Date of test	:	15/07/2023	
Grade of Slab	:	M15	

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	77.64	250.36	3.110	4733	84.2	17.8	16.5	20.7
2	Cover Slab-2	77.28	250.42	3.124	4690	81.6	17.4	16.2	20.2
3	Cover Slab-3	77.56	250.13	3.116	4724	82.8	17.5	16.3	20.4

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	CP-2023-10-16-05 **Date: 21/07/2023**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains of Buddha Jyothi Layout and surrounding areas in Ward No.11, Byatarayanapura.
Agency	:	Sri. A Kumar Reddy, #44 Kaveri Nagar, A Block, Bangalore-32.
Customer's Reference	:	BBMP/EE/BTP/WO/141/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	17-07-23
Customer ID	:	Drain Bottom Raft Concretre
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	21/07/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Raft Concretre	M20	14/07/2023	21/07/2023	150.04 X 150.97 X 150.00	22652	8.875	332.3	14.7	14.4
2	Drain Bottom Raft Concretre	M20	14/07/2023	21/07/2023	150.44 X 150.04 X 150.94	22572	8.652	320.2	14.2	
3	Drain Bottom Raft Concretre	M20	14/07/2023	21/07/2023	150.80 X 150.56 X 150.29	22706	8.748	327.0	*14.4	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	CP-2023-10-16-05 **Date: 11/08/2023**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains of Buddha Jyothi Layout and surrounding areas in Ward No.11, Byatarayanapura.
Agency	:	Sri. A Kumar Reddy, #44 Kaveri Nagar, A Block, Bangalore-32.
Customer's Reference	:	BBMP/EE/BTP/WO/141/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	17-07-23
Customer ID	:	Drain Bottom Raft Concretre
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	11/08/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Raft Concretre	M20	14/07/2023	11/08/2023	150.66 X 150.53 X 150.06	22680	8.296	533.5	23.5	23.3
2	Drain Bottom Raft Concretre	M20	14/07/2023	11/08/2023	150.70 X 150.19 X 150.71	22634	8.796	523.3	23.1	
3	Drain Bottom Raft Concretre	M20	14/07/2023	11/08/2023	150.40 X 150.21 X 150.59	22591	8.933	527.6	23.4	

* The results obtained are satisfactory as per standard requirements.

Note:

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Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	CP-2023-10-16-05 **Date: 24/07/2023**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains of Buddha Jyothi Layout and surrounding areas in Ward No.11, Byatarayanapura.
Agency	:	Sri. A Kumar Reddy, #44 Kaveri Nagar, A Block, Bangalore-32.
Customer's Reference	:	BBMP/EE/BTP/WO/141/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	19-07-23
Customer ID	:	Drain Side Wall Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	24/07/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	17/07/2023	24/07/2023	150.71 X 150.47 X 150.18	22677	8.818	329.7	14.5	14.5
2	Drain Side Wall Concrete	M20	17/07/2023	24/07/2023	150.63 X 150.28 X 150.07	22636	8.337	337.6	14.9	
3	Drain Side Wall Concrete	M20	17/07/2023	24/07/2023	150.91 X 150.17 X 150.11	22662	8.400	321.3	14.2	

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Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	CP-2023-10-16-05 **Date: 14/08/2023**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains of Buddha Jyothi Layout and surrounding areas in Ward No.11, Byatarayanapura.
Agency	:	Sri. A Kumar Reddy, #44 Kaveri Nagar, A Block, Bangalore-32.
Customer's Reference	:	BBMP/EE/BTP/WO/141/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	19-07-23
Customer ID	:	Drain Side Wall Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	14/08/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	17/07/2023	14/08/2023	150.58 X 150.36 X 150.89	22642	8.730	529.6	23.4	23.7
2	Drain Side Wall Concrete	M20	17/07/2023	14/08/2023	150.44 X 150.54 X 150.68	22647	8.761	538.3	23.8	
3	Drain Side Wall Concrete	M20	17/07/2023	14/08/2023	150.20 X 150.81 X 150.73	22652	8.981	541.7	23.9	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	CP-2023-10-16-05 **Date: 02/08/2023**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains of Buddha Jyothi Layout and surrounding areas in Ward No.11, Byatarayanapura.
Agency	:	Sri. A Kumar Reddy, #44 Kaveri Nagar, A Block, Bangalore-32.
Customer's Reference	:	BBMP/EE/BTP/WO/141/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	28-07-23
Customer ID	:	Drain Bottom Raft Concretre
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	02/08/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Raft Concretre	M20	26/07/2023	02/08/2023	150.83 X 150.57 X 150.52	22711	8.571	323.8	14.3	14.3
2	Drain Bottom Raft Concretre	M20	26/07/2023	02/08/2023	150.72 X 150.88 X 150.13	22740	8.924	328.7	14.5	
3	Drain Bottom Raft Concretre	M20	26/07/2023	02/08/2023	150.42 X 150.12 X 150.11	22580	8.362	318.1	14.1	

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Kodigehalli Sub Division
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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	CP-2023-10-16-05 **Date: 23/08/2023**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains of Buddha Jyothi Layout and surrounding areas in Ward No.11, Byatarayanapura.
Agency	:	Sri. A Kumar Reddy, #44 Kaveri Nagar, A Block, Bangalore-32.
Customer's Reference	:	BBMP/EE/BTP/WO/141/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	28-07-23
Customer ID	:	Drain Bottom Raft Concretre
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	23/08/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Raft Concretre	M20	26/07/2023	23/08/2023	150.73 X 150.68 X 150.23	22712	8.109	524.0	23.1	23.2
2	Drain Bottom Raft Concretre	M20	26/07/2023	23/08/2023	150.05 X 150.22 X 150.45	22541	8.127	521.9	23.2	
3	Drain Bottom Raft Concretre	M20	26/07/2023	23/08/2023	150.63 X 150.95 X 150.34	22737	8.952	529.3	23.3	

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Kodigehalli Sub Division
BBMP, Bangalore

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	CP-2023-10-16-05 **Date: 05/08/2023**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains of Buddha Jyothi Layout and surrounding areas in Ward No.11, Byatarayanapura.
Agency	:	Sri. A Kumar Reddy, #44 Kaveri Nagar, A Block, Bangalore-32.
Customer's Reference	:	BBMP/EE/BTP/WO/141/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	31-07-23
Customer ID	:	Drain Side Wall Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	05/08/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	29/07/2023	05/08/2023	150.96 X 150.68 X 150.53	22747	8.165	325.7	14.3	14.3
2	Drain Side Wall Concrete	M20	29/07/2023	05/08/2023	150.44 X 150.52 X 150.38	22645	8.299	327.5	14.5	
3	Drain Side Wall Concrete	M20	29/07/2023	05/08/2023	150.12 X 150.89 X 150.28	22651	8.632	317.5	14.0	

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Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	CP-2023-10-16-05 **Date: 26/08/2023**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains of Buddha Jyothi Layout and surrounding areas in Ward No.11, Byatarayanapura.
Agency	:	Sri. A Kumar Reddy, #44 Kaveri Nagar, A Block, Bangalore-32.
Customer's Reference	:	BBMP/EE/BTP/WO/141/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	31-07-23
Customer ID	:	Drain Side Wall Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	26/08/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	29/07/2023	26/08/2023	150.14 X 150.82 X 150.14	22645	8.943	535.6	23.7	23.4
2	Drain Side Wall Concrete	M20	29/07/2023	26/08/2023	150.87 X 150.42 X 150.12	22694	8.459	533.2	23.5	
3	Drain Side Wall Concrete	M20	29/07/2023	26/08/2023	150.59 X 150.13 X 150.77	22607	8.488	523.6	23.2	

* The results obtained are satisfactory as per standard requirements.

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Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	CP-2023-10-16-05 **Date: 14/08/2023**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains of Buddha Jyothi Layout and surrounding areas in Ward No.11, Byatarayanapura.
Agency	:	Sri. A Kumar Reddy, #44 Kaveri Nagar, A Block, Bangalore-32.
Customer's Reference	:	BBMP/EE/BTP/WO/141/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	09-08-23
Customer ID	:	Drain Bottom Raft Concretre
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	14/08/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Raft Concretre	M20	07/08/2023	14/08/2023	150.98 X 150.30 X 150.58	22692	8.641	332.6	14.7	14.5
2	Drain Bottom Raft Concretre	M20	07/08/2023	14/08/2023	150.88 X 150.20 X 150.87	22662	8.974	319.1	14.1	
3	Drain Bottom Raft Concretre	M20	07/08/2023	14/08/2023	150.05 X 150.85 X 150.70	22635	8.491	333.8	14.7	

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BBMP, Bangalore

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	CP-2023-10-16-05 Date: 04/09/2023
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains of Buddha Jyothi Layout and surrounding areas in Ward No.11, Byatarayanapura.
Agency	:	Sri. A Kumar Reddy, #44 Kaveri Nagar, A Block, Bangalore-32.
Customer's Reference	:	BBMP/EE/BTP/WO/141/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	09-08-23
Customer ID	:	Drain Bottom Raft Concretre
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	04/09/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Raft Concretre	M20	07/08/2023	04/09/2023	150.22 X 150.17 X 150.26	22559	8.818	537.1	23.8	23.6
2	Drain Bottom Raft Concretre	M20	07/08/2023	04/09/2023	150.35 X 150.04 X 150.77	22558	8.131	532.4	23.6	
3	Drain Bottom Raft Concretre	M20	07/08/2023	04/09/2023	150.38 X 150.05 X 150.65	22565	8.702	525.7	23.3	

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Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

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Authorized Signatory
Quality Manager

****End of Report****

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	CP-2023-10-16-05 **Date: 17/08/2023**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains of Buddha Jyothi Layout and surrounding areas in Ward No.11, Byatarayanapura.
Agency	:	Sri. A Kumar Reddy, #44 Kaveri Nagar, A Block, Bangalore-32.
Customer's Reference	:	BBMP/EE/BTP/WO/141/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	12-08-23
Customer ID	:	Drain Side Wall Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	17/08/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	10/08/2023	17/08/2023	150.58 X 150.72 X 150.41	22695	8.270	320.8	14.1	14.4
2	Drain Side Wall Concrete	M20	10/08/2023	17/08/2023	150.45 X 150.42 X 150.89	22630	8.509	331.9	14.7	
3	Drain Side Wall Concrete	M20	10/08/2023	17/08/2023	150.43 X 150.99 X 150.78	22713	8.942	328.4	14.5	

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Kodigehalli Sub Division
BBMP, Bangalore

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2023-10-16-05 **Date: 07/09/2023**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains of Buddha Jyothi Layout and surrounding areas in Ward No.11, Byatarayanapura.

Agency : Sri. A Kumar Reddy, #44 Kaveri Nagar, A Block, Bangalore-32.

Customer's Reference : BBMP/EE/BTP/WO/141/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 12-08-23

Customer ID : Drain Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 07/09/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	10/08/2023	07/09/2023	150.08 X 150.76 X 150.52	22625	8.383	532.7	23.5	23.6
2	Drain Side Wall Concrete	M20	10/08/2023	07/09/2023	150.23 X 150.67 X 150.11	22635	8.277	537.0	23.7	
3	Drain Side Wall Concrete	M20	10/08/2023	07/09/2023	150.13 X 150.49 X 150.69	22593	8.821	532.7	23.6	

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Note:

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Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | ENVIRONMENTAL
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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	CP-2023-10-16-05 **Date: 25/08/2023**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains of Buddha Jyothi Layout and surrounding areas in Ward No.11, Byatarayanapura.
Agency	:	Sri. A Kumar Reddy, #44 Kaveri Nagar, A Block, Bangalore-32.
Customer's Reference	:	BBMP/EE/BTP/WO/141/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	21-08-23
Customer ID	:	Culvert Bottom Raft Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	25/08/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Bottom Raft Concrete	M20	18/08/2023	25/08/2023	150.75 X 150.89 X 150.17	22746	8.770	327.4	14.4	14.4
2	Culvert Bottom Raft Concrete	M20	18/08/2023	25/08/2023	150.21 X 150.11 X 150.97	22548	8.567	320.3	14.2	
3	Culvert Bottom Raft Concrete	M20	18/08/2023	25/08/2023	150.90 X 150.85 X 150.83	22764	8.285	334.5	14.7	

* The results obtained are satisfactory as per standard requirements.

Note:

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Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	CP-2023-10-16-05 **Date: 15/09/2023**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains of Buddha Jyothi Layout and surrounding areas in Ward No.11, Byatarayanapura.
Agency	:	Sri. A Kumar Reddy, #44 Kaveri Nagar, A Block, Bangalore-32.
Customer's Reference	:	BBMP/EE/BTP/WO/141/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	21-08-23
Customer ID	:	Culvert Bottom Raft Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	15/09/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Bottom Raft Concrete	M20	18/08/2023	15/09/2023	150.63 X 150.51 X 150.98	22671	8.127	541.4	23.9	23.6
2	Culvert Bottom Raft Concrete	M20	18/08/2023	15/09/2023	150.63 X 150.50 X 150.81	22670	8.896	540.2	23.8	
3	Culvert Bottom Raft Concrete	M20	18/08/2023	15/09/2023	150.83 X 150.01 X 150.33	22626	8.415	521.6	23.1	

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BBMP, Bangalore

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	CP-2023-10-16-05 **Date: 28/08/2023**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains of Buddha Jyothi Layout and surrounding areas in Ward No.11, Byatarayanapura.
Agency	:	Sri. A Kumar Reddy, #44 Kaveri Nagar, A Block, Bangalore-32.
Customer's Reference	:	BBMP/EE/BTP/WO/141/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	23-08-23
Customer ID	:	Culvert Side Wall Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	28/08/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Side Wall Concrete	M20	21/08/2023	28/08/2023	150.98 X 150.01 X 150.08	22649	8.624	329.4	14.5	14.5
2	Culvert Side Wall Concrete	M20	21/08/2023	28/08/2023	150.38 X 150.86 X 150.04	22686	8.880	323.8	14.3	
3	Culvert Side Wall Concrete	M20	21/08/2023	28/08/2023	150.17 X 150.23 X 150.68	22560	8.750	332.1	14.7	

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | ENVIRONMENTAL
WATER TESTING | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	CP-2023-10-16-05 **Date: 19/09/2023**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains of Buddha Jyothi Layout and surrounding areas in Ward No.11, Byatarayanapura.
Agency	:	Sri. A Kumar Reddy, #44 Kaveri Nagar, A Block, Bangalore-32.
Customer's Reference	:	BBMP/EE/BTP/WO/141/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	23-08-23
Customer ID	:	Culvert Side Wall Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	18/09/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Side Wall Concrete	M20	21/08/2023	18/09/2023	150.46 X 150.11 X 150.12	22585	8.372	525.2	23.3	23.5
2	Culvert Side Wall Concrete	M20	21/08/2023	18/09/2023	150.10 X 150.70 X 150.52	22619	8.602	522.9	23.1	
3	Culvert Side Wall Concrete	M20	21/08/2023	18/09/2023	150.68 X 150.32 X 150.47	22651	8.711	543.3	24.0	

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Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

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Quality Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	CP-2023-10-16-05 **Date: 12/09/2023**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains of Buddha Jyothi Layout and surrounding areas in Ward No.11, Byatarayanapura.
Agency	:	Sri. A Kumar Reddy, #44 Kaveri Nagar, A Block, Bangalore-32.
Customer's Reference	:	BBMP/EE/BTP/WO/141/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	07-09-23
Customer ID	:	Culvert Ramp Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M15 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	12/09/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Ramp Concrete	M15	05/09/2023	12/09/2023	150.54 X 150.12 X 150.69	22599	8.568	241.3	10.7	10.7
2	Culvert Ramp Concrete	M15	05/09/2023	12/09/2023	150.78 X 150.13 X 150.53	22637	8.413	247.9	11.0	
3	Culvert Ramp Concrete	M15	05/09/2023	12/09/2023	150.80 X 150.47 X 150.71	22692	8.915	235.6	10.4	

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Assistant Executive Engineer
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Quality Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	CP-2023-10-16-05 **Date: 03/10/2023**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains of Buddha Jyothi Layout and surrounding areas in Ward No.11, Byatarayanapura.
Agency	:	Sri. A Kumar Reddy, #44 Kaveri Nagar, A Block, Bangalore-32.
Customer's Reference	:	BBMP/EE/BTP/WO/141/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	07-09-23
Customer ID	:	Culvert Ramp Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M15 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	03/10/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Ramp Concrete	M15	05/09/2023	03/10/2023	150.62 X 150.12 X 150.25	22610	8.987	406.1	18.0	17.5
2	Culvert Ramp Concrete	M15	05/09/2023	03/10/2023	150.45 X 150.41 X 150.23	22630	8.877	388.1	17.2	
3	Culvert Ramp Concrete	M15	05/09/2023	03/10/2023	150.24 X 150.16 X 150.22	22561	8.539	395.1	17.5	

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